

## Hit List

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### Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 5727158 A

L10: Entry 1 of 2

File: USPT

Mar 10, 1998

US-PAT-NO: 5727158

DOCUMENT-IDENTIFIER: US 5727158 A

TITLE: Information repository for storing information for enterprise computing system

DATE-ISSUED: March 10, 1998

INVENTOR-INFORMATION:

| NAME                   | CITY      | STATE | ZIP CODE | COUNTRY |
|------------------------|-----------|-------|----------|---------|
| Bouziane; M'hamed      | Nashua    | NH    |          |         |
| Webber, III; Robert C. | Nashua    | NH    |          |         |
| Mastro; Vincent A.     | Needham   | MA    |          |         |
| Rehberg; Charles P.    | Nashua    | NH    |          |         |
| Nichols; Barbara A.    | Acton     | MA    |          |         |
| Myers; Roxanne N.      | Watertown | MA    |          |         |

10/009/91

ASSIGNEE-INFORMATION:

| NAME               | CITY      | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------|-----------|-------|----------|---------|-----------|
| Integra Soft, Inc. | Billerica | MA    |          |         | 02        |

APPL-NO: 08/532462 [PALM]

DATE FILED: September 22, 1995

INT-CL-ISSUED: [06] G06F 12/10

INT-CL-CURRENT:

| TYPE | IPC         | DATE     |
|------|-------------|----------|
| CIPP | G06 F 17/30 | 20060101 |

US-CL-ISSUED: 395/200.55; 395/200.76, 395/200.75

US-CL-CURRENT: 709/225; 709/245, 709/246

FIELD-OF-CLASSIFICATION-SEARCH: 395/200, 395/500, 395/600, 395/800, 395/138, 395/140, 395/50, 395/54, 395/62, 395/75-77, 395/427, 395/412, 395/200.55, 395/200.76, 395/200.75, 395/856, 395/287

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

| PAT-NO         | ISSUE-DATE    | PATENTEE-NAME   | US-CL      |
|----------------|---------------|-----------------|------------|
| <u>4853843</u> | August 1989   | Ecklund         | 395/600    |
| <u>4937768</u> | June 1990     | Carver et al.   | 364/571.01 |
| <u>5369761</u> | November 1994 | Conley et al.   | 395/600    |
| <u>5437025</u> | July 1995     | Bale et al.     | 395/600    |
| <u>5437027</u> | July 1995     | Bannon et al.   | 395/600    |
| <u>5446575</u> | August 1995   | Lysakowski, Jr. | 395/200.01 |
| <u>5487141</u> | January 1996  | Cain et al.     | 395/135    |
| <u>5535325</u> | July 1996     | Cattell et al.  | 395/161    |

ART-UNIT: 232

PRIMARY-EXAMINER: Geckil; Mehmet B.

ATTY-AGENT-FIRM: Jordan; Richard A.

ABSTRACT:

An information processing system includes a plurality of data processing tools, an atomic information repository, and a plurality of generated translation engines. Each data processing tool processes data in accordance with an associated data model, and in the process generates access requests for accessing data in accordance with its associated data model. The atomic information repository stores data items using an organization in an atomic data model which corresponds to the combination of the data models associated with all of the tools. Each translation engine is associated with one of the tools. Each translation engine receives an access request from its associated tool in the associated tool's data model and performs a translation operation to translate the request to the repository's atomic data model, and initiates an access operation with the repository in connection with the translated access request. A system manager is provided which can, when a new tool is added to the system, update the repository's atomic data model to reflect the added tool's associated data model, generate a translation engine for the new tool, and also update the translation engines associated with the existing tools to reflect the update.

56 Claims, 5 Drawing figures

|      |       |          |       |        |                |      |           |           |             |        |     |           |       |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-------|
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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-------|

2. Document ID: WO 9711425 A1, AU 704678 B, AU 9672416 A, EP 799450 A1, US 5727158 A, JP 11500247 W

L10: Entry 2 of 2

File: DWPI

Mar 27, 1997

DERWENT-ACC-NO: 1997-203086

DERWENT-WEEK: 199928

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TITLE: Information repository system for storing digital data for enterprise computing system - stores data items using organisation in atomic data model which corresponds to combination of data models associated with data processing tools and initiates access operation with

repository in connection with translated access request

INVENTOR: BOUZIANE, M; MASTRO, V A ; MYERS, R N ; NICHOLS, B A ; REHBERG, C P ; WEBBER, R C

PRIORITY-DATA: 1995US-0532462 (September 22, 1995)

PATENT-FAMILY:

| PUB-NO               | PUB-DATE        | LANGUAGE | PAGES | MAIN-IPC   |
|----------------------|-----------------|----------|-------|------------|
| <u>WO 9711425 A1</u> | March 27, 1997  | E        | 031   | G06F012/00 |
| <u>AU 704678 B</u>   | April 29, 1999  |          | 000   | G06F012/00 |
| <u>AU 9672416 A</u>  | April 9, 1997   |          | 000   | G06F012/00 |
| <u>EP 799450 A1</u>  | October 8, 1997 | E        | 000   | G06F012/00 |
| <u>US 5727158 A</u>  | March 10, 1998  |          | 016   | G06F012/10 |
| <u>JP 11500247 W</u> | January 6, 1999 |          | 041   | G06F012/00 |

INT-CL (IPC): G06F 12/00; G06F 12/10; G06F 13/00

ABSTRACTED-PUB-NO: US 5727158A

BASIC-ABSTRACT:

The information processing system includes a number of data processing tools (11), an atomic information repository (12), and several generated translation engines (13). Each data processing tool processes data in accordance with an associated data model, and in the process generates access requests for accessing data in accordance with its associated data model. The atomic information repository (12) stores data items using an organization in an atomic data model which corresponds to the combination of the data models associated with all of the tools (11).

Each translation engine is associated with one of the tools. Each translation engine receives an access request from its associated tool's data model and performs a translation operation to translate the request to the repository's atomic data model, and initiates an access operation with the repository in connection with the translated access request.

ADVANTAGE - Provides efficient sharing and updating of information without need for constraining data processing tools to any predetermined data model, and without requiring tools to use information exchange programs for exchanging information between pairs of respective tools. Provides atomic repository information manager RIM that maintains data in atomic data model and format which may be used for any of tools in system, which may be readily updated and evolved in convenient manner when new tool is added to system to respond to new system and market requirements. By associating each tool with 'master physical item' class, directed graphs are established among data items in RIM and so updating of information in RIM in response to update request can be efficiently accomplished using conventional directed graph procedures.

ABSTRACTED-PUB-NO:

WO 9711425A EQUIVALENT-ABSTRACTS:

The information processing system includes a number of data processing tools (11), an atomic information repository (12), and several generated translation engines (13). Each data processing tool processes data in accordance with an associated data model, and in the process generates access requests for accessing data in accordance with its associated data model. The atomic information repository (12) stores data items using an organization in an atomic data model which corresponds to the combination of the data models associated with all of the tools (11).

Each translation engine is associated with one of the tools. Each translation engine receives an access request from its associated tool's data model and performs a translation operation to

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**ADVANTAGE** - Provides efficient sharing and updating of information without need for constraining data processing tools to any predetermined data model, and without requiring tools to use information exchange programs for exchanging information between pairs of respective tools. Provides atomic repository information manager RIM that maintains data in atomic data model and format which may be used for any of tools in system, which may be readily updated and evolved in convenient manner when new tool is added to system to respond to new system and market requirements. By associating each tool with ''master physical item'' class, directed graphs are established among data items in RIM and so updating of information in RIM in response to update request can be efficiently accomplished using conventional directed graph procedures.

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| Term  | Documents |
|---|-----------|
| FORMAT  | 514242    |
| FORMATS   | 175539    |
| (9 AND FORMAT) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.   | 2         |
| (L9 AND FORMAT ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 2         |

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